IN THE CLAIMS:

Please the claims as follows: **(A copy of a marked up version with markings to show changes made is attached hereto.)**

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1. (Amended) A fiber composite structure having laminate layers, with a piezoelectric actuator or sensor integrated therein, wherein:

electric feed lines for the actuator or sensor comprise electrically insulated thin wires;

said wires exit the fiber composite almost perpendicularly to the laminate layers, whereby fibers of the fiber composite structure are not severed by exiting of the feed lines, but are rather slightly pushed apart.

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7. (Amended) The fiber composite according to Claim 1, wherein insulation of contact points between the actuator or sensor and the electric feed lines is provided by one of an epoxy resin, an insulating varnish or an insulating polyimide foil.

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10. (Amended) A process for producing a fiber composite with an actuator or sensor integrated therein, according to

Claim 1, by means of a prepreg or wet-laminating technique and a subsequent curing at a raised temperature and an increased pressure.

All cmd'd.

11. (Amended) A process for producing a fiber composite with an actuator or sensor integrated therein according to Claim 1, comprising:

preparing a prepreg or wet-laminar component;

baking the prepreg or wet-laminate component at an elevated temperature;

tempering the prepreg or wet-laminar component at a raised temperature and an increased pressure.

12. (Amended) The process according to Claim 10, wherein:

openings are present in the pressure plates for the pressure treatment of the fiber composite, which openings are used for the guiding-through of feed lines for the actuator or sensor; and

the openings are arranged at the points at which the feed lines for the actuator or sensor emerge from the fiber composite.

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14. (Amended) The process according to Claim 12, wherein:

the openings are sealed off by means of a sealing tape; and

because of a pressure difference during the curing cycle, a portion of the sealing tape is pressed into a gap between the feed line and the pressure piece.

15. (Amended) The process according to Claim 12, wherein pressure plates are used which have a reduced stiffness relative to the known pressure plates; and

a thickness of pressure plates is less than 5 mm.

16. (Amended) The process according to Claim 15, wherein the thickness of the pressure plates is 2 mm.

17. (Amended) The process according to Claim 12, wherein in an area of the actuator or sensor, the pressure plate has a shallow recess, in a range of from 0.1 to 0.2 mm to prevent a pressing-out of the matrix because of the thickening in this area.

IN THE ABSTRACT: